Completed Project During April 2024-March 2025

			Contract
Project Title	Start Date	End Date	Value (Rs. in Lakhs)
COLLABORATIVE PROJECTS			
Effective Utilization of Middlings and Fines of Coking Coal Washery for Recovery of Carbon Values.	10-12-2021	31-08-2024	126.52000
GRANT-in-AID PROJECTS	1	1	
High Temperature Oxidation and Hot Corrosion behavior of selected materials for Clean Coal Technologies for Power Plant Applications	01-11-2018	25-09-2024	138.49200
Creep-fatigue interaction behavior of ODS-austenitic steels and ODS-iron and nickel aluminides	01-11-2018	25-09-2024	295.59400
Development of Advanced NDE based Diagnosis and Prognosis Protocols for A-USC Power Plants	01-11-2018	25-09-2024	209.75000
Hot stage engineering of copper smelter slag for recovery of iron and subsequent use of resulting slag in blended cement	15-10-2020	31-03-2025	83.90639
Women Technology Park (WTP) for capacity building and entrepreneurship development	17-07-2021	27-12-2024	52.60654
Development of Novel Hydrometallurgical Technological process for extraction and separation of Scandium from Tin Slag	01-06-2022	31-05-2024	40.00000
Investigation on weldability of 8 and 20 mm thick high nitrogen steel with strength of about 800-1200 MPa	01-07-2022	31-03-2025	85.98100
Eco-Friendly Solution with Metal Recovery and Value Added Products from Stainless Steel Spent Pickle Liquor: A Zero Waste Business Model.	01-05-2023	31-03-2025	67.72400
CSIR PROJECTS			
Replacement of Toxic Cadmium Coatings by Electrodeposited Al/Zn-Mn Coatings on High Strength Steels	16-02-2022	15-02-2025	76.94000
High Entropy Alloys for hydrogen storage application operable at Room Temperature (HEART)	01-04-2022	31-03-2025	75.00000
Development of large scale synthesis process for transition metal nano-composite based efficient and stable bifunctional electrocatalyst for anionic membrane alkaline water electrolyzer	01-04-2022	31-03-2025	53.63000
Recovery of Lithium from Potential Indian Primary Resources for Battery Applications	01-10-2023	31-03-2025	176.16500
Electrodeposition of corrosion resistant Cr-carbide coatings on SS 316L for Sink Roll applications in Continuous Galvanizing Lines	08-09-2022	07-09-2024	40.00000

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Self-healing coating for corrosion protection of structural steel	01-08-2022	31-07-2024	76.00000
Technology development for Holistic utilization of Red Mud for extraction of Metallic values & residue utilization	03-10-2022	01-10-2024	176.26005
Holistic utilization of zinc dross for recovery of high value zinc products	08-09-2022	07-09-2024	145.00000
Scale up study for the recovery of potash fertilizer and iron oxide from Indian glauconitic rocks	08-09-2022	07-09-2024	54.00000
Indigenous Development of Benzoic Acid Reference Material for Calorimetry Analysis	08-09-2022	07-09-2024	54.40000
CSIR Integrated Skill Training Initiative of CSIR-NML	01-04-2020	31-03-2025	395.75000
IN-HOUSE PROJECTS			
A study on hydrodynamics characteristics in separation of minerals in a monolithic flotation column	01-11-2021	30-09-2024	2.70000
Flow Accelerated Pipeline Corrosion (Module-I): Probing the FAC mechanisms of API 5L grade steels through gravimetric and different electrochemical techniques Flow Accelerated Pipeline Corrosion (Module-II): Microstructure & FAC behavior correlation in API 5L grade steels; Effect of different Fe-C phases & phase fractions Flow Accelerated Pipeline Corrosion (Module-III): Microstructure, Inhibitor performance & FAC behavior correlation in API 5L grade steels; Effect of Microstructural Constituents on Inhibitor'S Effectiveness	01-11-2021	30-09-2024	5.55000
Near net shape 3D manufacturing of Inconel 718 by optimizing controlled parameters of wire arc additive manufacturing with Cold metal transfer process.(Module I)(Module II)(Module III)	14-04-2022	31-03-2025	5.70000
Microstructural evolution of Superalloy Inconel 740H during Thermomechanical Processing(Module I)(Module II)(Module III)	14-04-2022	31-03-2025	1.71000
(Module - I) Thermodynamics and Kinetic Investigation on the Gas-Solid reduction of premixed lean grade Mn/Fe Ores (Module - II)Thermodynamic and Kinetic investigation on the Gas-Solid reduction of premixed lean grade Mn/Fe ores	01-12-2022	30-09-2024	6.65000
Microstructure and Mechanical Property evolution of WAAM-ed Inconel 625 (Module-I + Module-II)	01-12-2022	30-09-2024	1.70000
Analytical strategies for elimination of Memory effect in ICP-MS for the quantification of mercury (Hg) in Coal and fly ash samples	01-05-2023	30-04-2024	10.66000

Understanding the occurrence of Rare Earth Elements and Yttrium within coal beds, partings, and overburden (Module-1)(Module-2)	15-05-2023	31-03-2025	3.97500
To Explore Ferrochrome Slag as a Protective Coating Material to Prevent Corrosion of Caster Rolls	01-01-2024	30-09-2024	9.10000
Deposition and Characterization of Antimony Chalcogenide-based Light Absorbers Coatings for Photovoltaic Applications	01-11-2023	30-09-2024	20.50000
Development of Eddy Current sensor for crack detection in bilayer riveted engineering structures	01-11-2023	30-09-2024	9.40000
Development of indigenous Coal CRMS for different grade of Ash, VM & GCV in Indian coal	01-11-2023	30-09-2024	3.27000
Design of efficient corrosion inhibitor for mild steel surfaces using density functional theory and reactive molecular dynamics simulations	15-11-2023	30-09-2024	2.30000
Zirconium rich alloys for Dental implant	01-05-2024	31-07-2024	36.99000
Column flotation for Indian copper sulphides.	01-05-2024	31-03-2025	6.70000
Design and Development of a novel innovative reactor for the production of Magnetite powder from iron oxide fines	01-05-2024	31-03-2025	17.17500
Thermal Performance Analysis of Additively Manufactured Liquid Cold Plate for EV Battery	01-05-2024	31-03-2025	5.54000
Development of a Data Server , Report Management System & One window access to varied Project Information including APP	01-05-2024	31-03-2025	4.90000
SPONSORED PROJECTS			
Electronic packages for ultrasonic flow meter for on- board propellant gauging of spacecraft	01-09-2018	31-12-2024	49.72520
Investigations of Fracture and Fatigue Crack Growth Rate Behaviour of Aero Engine Fan Disk of Ti-6AI-4V Alloy	04-02-2019	31-12-2024	95.96383
Coal Characterization of Eastern Coalfileds	11-04-2022	31-03-2025	170.15600
Evaluation of grade of SECL mines	15-12-2021	31-03-2025	97.00001
Fatigue Behaviour Of Primary Piping/vessel Materials If Indian Npps Under Multi Axial Conditions (Ssp 1267)	11-02-2021	31-12-2024	44.48600
Characterization of Coal samples supplied by M/s Adani Power Ltd.	10-02-2022	08-05-2024	18.45722
Refining of hot metal in MgO lined induction furnace	06-01-2022	19-10-2024	21.24000
Microstructure and mechanical health assessment of center buffer coupler parts	20-01-2022	31-03-2025	70.21000

11-04-2022	25-03-2025	117.99999
15-07-2022	31-12-2024	100.00534
01-05-2022	30-04-2024	56.87954
10-10-2022	30-04-2024	23.60000
15-07-2022	31-03-2025	119.99997
01-11-2022	31-03-2025	7.77174
20-01-2023	31-12-2024	26.55000
14-11-2022	14-05-2024	11.80000
05-10-2023	04-10-2024	11.80000
11-03-2024	10-03-2025	5.90000
29-05-2024	29-09-2024	11.80000
14-06-2024	14-03-2025	7.08000
18-06-2024	06-08-2024	5.90000
10-02-2023	31-08-2024	17.70000
09-05-2023	08-05-2024	11.21000
19-05-2023	18-05-2024	5.90000
01-07-2023	30-06-2024	11.80000
02-06-2023	01-06-2024	10.00640
20-06-2023	19-06-2024	9.44000
01-08-2023	31-12-2024	21.24000
03-07-2023	02-07-2024	17.70000
	15-07-2022 10-10-2022 15-07-2022 15-07-2022 01-11-2022 20-01-2023 14-11-2022 05-10-2023 11-03-2024 14-06-2024 14-06-2024 10-02-2023 09-05-2023 19-05-2023 01-07-2023 20-06-2023	15-07-2022 31-12-2024 01-05-2022 30-04-2024 10-10-2022 30-04-2024 15-07-2022 31-03-2025 01-11-2022 31-03-2025 20-01-2023 31-12-2024 14-11-2022 14-05-2024 05-10-2023 04-10-2024 11-03-2024 10-03-2025 29-05-2024 29-09-2024 14-06-2024 14-03-2025 18-06-2024 06-08-2024 10-02-2023 31-08-2024 09-05-2023 08-05-2024 01-07-2023 30-06-2024 02-06-2023 01-06-2024 20-06-2023 19-06-2024 01-08-2023 31-12-2024

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Pre-reduction and smelting studies of biochar for ferroalloy production	03-07-2023	31-03-2025	13.27500
Transfer of technological Know-How to recycle spent lithium ion batteries (LIBS) to produce value added products of Li, Co, Mn, Cu, Ni as metals/salts, saleable plastics and graphite	01-08-2023	30-11-2024	25.00000
Transfer of technological Know-How for the extraction of Cu, Al and Au as metals/salts from waste PCBs	01-08-2023	30-11-2024	25.00000
Up-scaling of process for production of Electrolytic Mn Metal from MOIL MnSO4 solution	01-09-2023	31-08-2024	48.04960
Evaluation of debonding area in Con rods using Ultrasonic Imaging	30-08-2023	31-12-2024	6.19500
Work package to upscale, characterize and realize the properties in Complex concentrated alloys (CCA).	12-07-2023	31-12-2024	40.56861
Feasibility Studies on the Preparation of Zirconium Iron Alloy	09-09-2023	03-09-2024	8.85000
Creep behavior of different grades of stainless steels and nickel-based super alloys	08-09-2023	31-03-2025	14.27800
Metallurgical Failure Investigation of the Blasted Oxygen Cylinder	31-07-2023	30-07-2024	7.67000
Technology transfer of a sensing device Zincometer for Zinc coating weight measurement in GI line	06-10-2023	31-10-2024	9.44000
Corrosion Damage Analysis of steel pipelines and material selection for Ammonia Distillation Unit	12-01-2024	11-01-2025	8.68480
Transfer of Know-how/Technology for the development of Ti3AlC2 MAX phase	01-02-2024	31-01-2025	5.90000
Simulation analysis for the grinding circuit for Ambaji Project	09-02-2024	09-10-2024	11.80000
Metallurgical investigation of fractured rails involved in derailment of NE Express	22-02-2024	21-02-2025	23.60000
AC Core-loss Studies on Additively Manufactured FeSi Toroidal Cores	05-03-2024	31-03-2025	10.32500
Metallurgical Failure Analysis of KSA Clamp of MIG-29 Aircraft	01-05-2024	30-10-2024	3.25000
Corrosion assessment of anti-corrosion coating for TBSPL	20-03-2024	19-09-2024	8.52550
Pilot scale flotation of coal using a synthesized collector reagent	01-01-2024	31-03-2025	31.86000